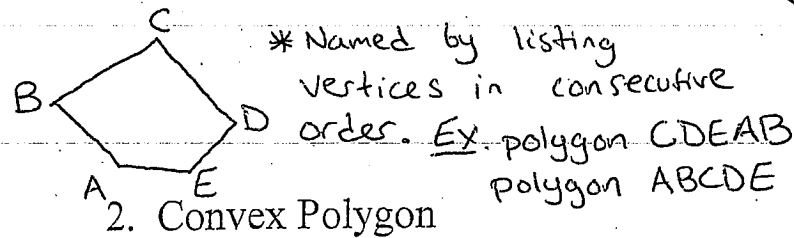


## 1.6 Classify Polygons

1. Polygon: a closed plane figure with the following properties



2. Convex Polygon



3. Concave Polygon



4. Names of Polygons by # of sides:

3

4

5

6

7

8

9

10

11

n

triangle

quadrilateral

pentagon

hexagon

heptagon

octagon

nonagon

decagon

dodecagon

n-gon

5. Equilateral

6. Equiangular

7. Regular

It is formed by 3 or more line segments called Sides.

1. A. more line segments called Sides.  
B. Each side intersects exactly two sides, one at each endpoint, or vertex, so that no two sides w/a common endpoint are collinear.

2. no line that contains a side of the polygon contains a point in the interior of the polygon

3. (non-convex)

5. all sides are congruent

6. all angles are congruent

7. convex polygon that is both equilateral and equiangular.